

## **ABSTRACT**

A dual polarized three-sector base station  
5 antenna with variable beam tilt in each sector. The invention advantageously provides a variable phase shifter with very small lateral dimensions which significantly reduces the diameter of a three-sector antenna. The feed network is located on both sides of  
10 the antenna ground plane, and the combination of the cable, microstrip and airstrip lines further reduces the lateral size of the antenna. Metal rings on the radome and double-bended ground plane are providing antenna with better cross-polarization and port-to-  
15 port isolation.